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**NRO REVIEW COMPLETED** 

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2 barch 1962

METURANDUM FOR : Chief, Development Branch, DPD-DD/P

i Trip Report SUBTRIT

1. PURPOSE: Travel to Vandemberg Air Force Dass 23 through 20 February to momitor loading operations and review hardware for the first concen/MURAL flight article.

## 2. GARRALI

2. Auxiliary Frame Cameras Spent Saturday in the "L" indicing reviewing the general state of readiness with special attention to capability of the Auxiliary Frame Camera to be included in this first mission. We had this item disessembled on a table for final cleaning prior to leading when we encountered difficulties in getting the shutters to operate. There was no instruction book or wiring diagram for this article, but rather was handled and loaded based on the experience of the personnel involved from Itek This item has been under question

by SETO for a number of months and is felt that many of the problems that plagued this comers were caused by the fact that this was the first of a kind and really a hardrade article. Once we educated ourselves on how to make it work, it worked beautifully. We loaded this camera on Saturday and installed it in the fairing so that the fairing could be rated to the busket on R-J. We made several exposures with a flashlight, developed these in a tray and I brought copies back to give to MPIC, USAF and AMS as a sample of the grid pattern they will see after a flight. Throughout the entire final loading and checkout, the Auxiliary Fram Camera functioned properly. I investigated the electrical circuit; and found it to be fused adequately in the system so that any inflight failure would not affect the primary payload area or system. In fact, to assure that there will be no binding between takenp careette of the Auxiliary Press Camera and the two main cassettes, we unspected approximately 30 feet of the 110 feet available on the fram sapply speel. This still provides enterial for more than 100% coverage by the Audiliary 25X1

COR-1550 Page 2

Frame Camera. Another problem was discovered in regard to the supply spool core for this item . . . the senter portion of the core was too tight to fit the spool in loading and we had to use sand paper to enlarge the hole during the leading operation. A check has been made on this problem area and it was found that the fit problem has been corrected after speel number 12. These spools which are off size will be used in tests only and refurbished to meet standard specifications.

b. Bein Instruments: A dry run review of loading procedures was conducted at 6 Sunday morning with all concerned prior to going to dark for final leading. The written "countdown" procedures were very good and the entire leading operation went extremely smooth. The improved handling fixtures for the MIRAL as opposed to the C\*\*\* are a major step formard. Even though there are two separate barrel assemblies to lead and mate, the lapse time for the entire operation was only about 2 1/2 hours. One advantage is that the first fairing section (containing the Auxiliary Frame Cemera and the clock) can be loaded on the previous day and mated to the bucket in full light conditions (since the Auxiliary Frame Camera and its chute into the bucket are completely light tight). The only problem encountered during this loading operation was during the camera operation of Instrument #70 to run the splice from the supply spool through the instrument to cut off the film used for threading prior to making with the bucket. At this time Instrument \$70 jumped out of the rails very shortly after the operation started. I felt, and the contractor representatives concurred, that 70 has always been sensitive to tension and using a man to not as a takeup cassetts by hand caused some relaxation of tension during this operation. Instrument #70 has never jumped the rails after final system sating and everything was buttoned up proper. However, we did watch this one very carofully through an access hole in the fairing after final meting. He ran approximately 50 cycles with perfect operation of both main instruments. The Samborn Recorder verified our visual observations.

SIGNED		

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